

ABSTRACT OF THE DISCLOSURE

A system for desalinating and purifying seawater to transform the seawater into drinkable water includes devices including a top layer, a bottom layer and an outer cooling assembly and four units correspondingly arranged in devices, wherein the top and bottom layers both have inner walls made of thermal-conductive and anti-corrosive material. The four units are a heating unit and a desalinating cracking unit within the bottom layer, a purifying distilling unit within the top layer, and a cooling unit within the outer cooling assembly.